FREYDLIN, A.Ya., kandidat tekhnicheskikh nauk.

Technological productivity of stamping automobile bodies. Avt.i
trakt.prom. no.4:34-39 Ap '57. (MLRA 10:5)

1.Gor'kovskiy avtozavod imeni Molotova.
(Automobiles--Bodies)
(Sheet-metal work)

FREYDLIN, Abram Yakovlevich, kond.tekhn.nauk; SVERDLOV, M.I., kond. tekhn.nauk, red.; KUBNEVA, M.M., tekhn.red.

[Cold forging techniques: stenographic record of a report]
Tekhnika kholodnoi shtampovki. Stenogramma doklada. Leningrad, Leningr.dom nauchno-tekhn.propagandy, 1958. 47 p.
(MIRA 12:9)

(Metals--Cold working) (Sheet-metal work)

KISELEV, I.I.; BORISOV, N.I.; YASINOVSKIY, B.S., inzh.; SANNIKOV, Yu.K., inzh.; SOKOLOV, V.A., inzh.; LEVCHENKO, L.D., inzh.; NALOYEV, G.A., inzh.; CHICHAKOV, K.K., inzh.; BARYKIN, V.I., inzh.; FREYDLIN, A.Ya., inzh.; GULYAYEV, A.I., inzh.; STIGNEYEV, Ya.F., inzh.; SHAGANOVA, K.N., inzh.; KHELIMSKIY, I.Ye., inzh.; AVROV, A.N., inzh.; DEMIDOVA, M.I., inzh.; NIKIFOROVA, Ye.D., inzh.; KLIBANOVA, F.I., inzh.; CHIVKUNOV, K.I., inzh.; STOROZHKO, I.G., inzh.; NOVAKOVSKIY, Ye.Ya., inzh.; GOYKHTUL*, A.O., inzh.; TARASOV, A.M., inzh.; SHISHKO, A.P., inzh.; UVAROV, P.T., ekonomist; DRAGUNOV, M.V., ekonomist; KARANDASHOV, A.A., ekonomist; KONKIN, M.V., ekonomist; GOREV, M.S., ekonomist. Prinimali uchastiye: LAPIN, T.I.; RAMENSKIY, Yu.A.; KADINSKIY, B.A.; SOKOLOV, S.D.; STOROZHKO, I.G.; FOMINYKH, A.I., POLYAKOVA, N., red.; SMIRNOV, G., tekhn.red.

[Organization and improvement of production; practices of the Gorkiy Automobile Plant] Organizatsiia i sovershenstvovanie proizvodstva; opyt Gor'kovskogo avtozavoda. Moskva, Gos. izd-vo polit. lit-ry, 1958. 332 p. (MIRA 12:2)

1. Direktor Gor'kovskogo avtomobil'nogo zavoda (for Kiselev).

2. Glavnyy inshener Gor'kovskogo avtomobil'nogo savoda (for Borisov).
3. Gor'kovskiy avtomobil'nyy zavod (for all except Kiselev, Borisov, Polyakova, Smirnov).

(Gorkiy--Automobile industry)

25(1)

PHASE I BOOK EXPLOITATION SOV/3123

Freydlin, Abram Yakovlevich, Candidate of Technical Sciences

- Tekhnika kholodnoy shtampovki; stenogramma doklada (Technique of Cold Stamping; Transcription of a Report) Leningrad, 1958. 48 p. 6,200 copies printed.
- Sponsoring Agencies: Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR, Leningradskiy dom nauchno-tekhnicheskoy propagandy; and Nauchno-tekhnicheskoye obshchestvo priborostroitelnoy promyshlennosti. Sektsiya kuznetsov i shtampovshchikov.
- Ed.: M. I. Sverdlov, Candidate of Technical Sciences; Tech. Ed.: M. M. Kubneva.
- PURPOSE: The book is intended for foremen and skilled workers in cold-stamping departments.
- COVERAGE: This booklet deals with the development of cold-stamping equipment in recent years and problems connected with the design

Card 1/3

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620020-3

Technique of Cold Stamping (Cont.) of dies and cold-stamping operations. The author describes types, designs, and operation of cold-stamping processes. No personalities are mentioned. There are 39 references: 19 Soviet, 14 English, 5 derman, and 1 French.	
Ch. I. Presses for Cold Stamping Gap-frame presses Two-column high-speed presses and large presses Double-and triple-action presses Embossing machines Hydraulic presses Multiple-cperation automatic presses Transfer machines Universal and specialized equipment Clutches for modern presses Mechanization and automation of press operation Individual improvements in presses	3 7 11 12 12 13 16 17 18 19 23
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Ch. III. Dies	36
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                                                                                   Meshcherin, V.T., [Doctor of Technical Sciences, Machine Too Stankoingtrumental invv institut. Moskva (Moscow Machine Too Stankoingtrumental invv institut.
                                                                                     Meshcherin, V.T., [Doctor of Technical Sciences, Machine Tool Moscow Machine Tool Moscow Machine of Moscow Problems of Stankoinstrumental Ny institute Manufacturing Problems of Machine Mac
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                                        Pikhtovnikov, R.V. [Doctor of Technical Sciences, Professor, khar'kovskiy aviatsionnyy institut(Khar'kov Aircraft Institut
                                      Pikhtovnikov, R.V. | Doctor of Technical Sciences, Professor, Use of an Explosive Wave for Drawing and Forming Medium and Political Sciences, Professor, Medium and Political Sciences, Professor, Pro
                                     Khar'kovskiy aviatsionnyy institut (Khar'kov Aircraft Institut (Anar'kov Aircraft Inst
                                                                                                                                                                                                                                                                                                                                                                                                                                          S07/2294
                                  Large Parts in Small-scale Production
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The author discusses experimental fabrication of shallow of an explosive wave caused by gunnowden.
                                               The author discusses experimental fabrication of shallow gasoline. Or natural gas.
                    Koshkin, L.N. [Candidate of Technical Sciences]. New Possibilities in the Develonment of Sheet Metal Stammi
                   Roshkin, L.N. [Candidate of Technical Sciences]. New in Connection With the Use of Automatic Rotary Transfer
                Tossibilities in the Development of Sneet Metal Stamping Machines of Automatic Rotary Transfer
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Mechanical and hydraulic rotary transfer machines are
described. The flexibility of these machines are
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Mechanical and hydraulic rotary transfer machines are facility of these machines allows and smooth transition into fully auto-
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matic lines.

and smooth transition into fully auto-
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                                                         New Features (Cont.)
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New Features (Cont.)

SOV/2294

Konovalova, I.I. [Engineer, Zavod "Metalloizdeliye", Leningrad (Leningrad Metal Products Plant)]. Transfer Machines for Making Safety-razor Blades

206

217

Fabricating processes and machinery for automatic lines are described, and information on tool life, heat treatment, grinding, and packing of blades is given.

Lanskoy, Ye.N. [Candidate of Technical Sciences, Docent, Moscow Machine Tool and Instrument Institute]. Selection of a Crank Press for Required Force and Work Parameters The author discusses flywheel effect, the meaning of nominal force (capacity), the magnitude of force at various angles of the crank, the work delivered by motor and flywheel, and the work of deformation. Recommendations for selecting the proper press for a given stamping operation are presented.

AVAILABLE: Library of Congress

GO/ajr 10-21-59

Card 9/9

GUSEV, M.S.; GUSEV, V.M., kandidat tekhnicheskikh nauk, redaktor; KAPLAN, M.Ya., redaktor; FREYDLIN, G.I., inshener; PUL'KINA, Ye.A., tekhnicheskiy redaktor.

[Installation of sanitation equipment in residential and civic construction] Opyt montarha sanitarno-tekhnicheskikh ustroistv v shilishchnom i grashdanskom stroitelistve. Leningrad, Gos. izdvo litery po stroitelistvu i arkhitekture, 1953. 32 p. (MLRA 7:8)

1. Brigadir santekhnikov Leningradskogo tresta Santekhmontazh. (for Gusev, M.S.) (Plumbing)

GONCHAROV, F.S., kand.tekhn.nauk; FREYDLIN, G.I., inzh.; SLADKOMEDOV, N.I., inzh.

Asbestos-cement sewage stand pipes for industrial buildings and apartment houses. Nov.tekh.mont.i spets.rab.v stroi. 21 no.9:21-22 S '59. (MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot (for Sladkomedov). (Pipe, Ashestos-cement)

ALEKSEYEV, Ye.K., inzh.; IZGUR, R.M., inzh.; LYUKE, Ye.P., inzh.; NIKO-LAYEVSKIY, Ye.Ya., inzh.; PIROGOV, A.N., inzh.; RODIONOVA, R.G., inzh.; TOYBIN, V.A., inzh.; FREYDLIN, G.M., inzh.; KHLYUPINA, A.K., inzh.; CHERNOV, D.L., inzh.; EYDEL!NANT, L.B., inzh.; ZHMUR, N.S., inzh., retsenzent; MOLYUKOV, G.A., inzh., red.; TIKHANOV, A.Ya., tekhn.red.

[Production and installation of pipe systems; reference manual]
Izgotovlenie i montazh tekhnologicheskikh truboprovodov; spravochnoe posobie. Moskva. Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1960. 574 p.
(Pipe fitting)

FEDOSEYEVA Z.K.; FREYDLIN, G.N.

Chemical removal of formic acid from acetic acid with potassium permanganate and bichromate. Khim.prom. no.5:306-307 Jl-Ag '56.

1. Yerevanskiy zavod "Polivinilatsetat."
(Acetic acid) (Formic acid) (Potassium salts)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620020-3"

LOSEY, I.P.; FEDOTOVA, O.Ya.; FREYDLIN, G.N.

Alcoholysis of polyvinyl acetate in presence of polyacids as catalysts. Report No. 1: Study of the rate of reaction. Izv. AN Arm. SSR ser. khim. nauk 10 no.6:403-410 '57. (MIRA 11:6)

1.Yerevanskiy zavod "Polivinilatsetat."
(Alcoholysis) (Acetic acid) (Chemical reaction, Rate of)

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"(《新数数)

REYDLIN, G. N., Cand Tech Sci — (diss) "Alcoholysis of polyvinyl acetate in the presence of a maniful of cation-exchange resins and sulfo-acids." Mos, 1958. 12 pp (Min of Higher Education USSR, Mos Order of Lenin Chem-Technol Inst im D. I. Mendeleyev), 100 copies (KL, 15-58, 116)

-51-

LOSEY, I.P.; FEDOTOVA, O.Ya.; FREYDLIN, G.N.

Preparation of polyvinyl alcohol by the alcoholysis of polyvinyl acetate in the presence of polyacids as catalysts. Report no.2: "Life span" of catalysts and feasibility of their regeneration.

Izv. AN Arm. SSR khim. nauk 11 no.1:31-36 158. (MIRA 11:6)

1.Yerevanskiy zavod "Polivinilatsetat."
(Acetic acid) (Alcoholysis) (Catalysis)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620020-3

FREYDLIN, G.N.; ZHENODAROVA, S.M.; CHUKUR, A.P.; FOMINA, N.V.

Vinyl monomers based on dicarboxylic acids. Part 1: Monopesters of adipic and succinic acids. Zhur.ob.khim. 32 no.3:792-794 (MIRA 15:3)

Mr '62. (Adipic acid) (Succinic acid)

5/079/62/032/003/003/007 D204/D302

Freydlin, G.N., Zhenodarova, S.M., Fomina, N.V. and Chukur, AUTHORS:

Vinyl monomers based on dicarboxylic acids. II. Vinyl TITLE:

alkyl esters of succinic and adipic acids

Zhurnal obshchey khimii, v. 32, no. 3, 1962, 795-798

TEXT: Preparation and properties of the above esters was studied owing to the possibility of producing from them internally plasticized polymers. PERIODICAL: Direct vinylation of monoesters in the liquid phase and the "vinyl exchange" methods were tried. Normal butyl, amyl, hexyl, octyl and nonyl change methods were tried. Normal outyl, amyl, nexyl, octyl and nonyl vinyl adipates were synthesised by the catalytic reaction with acetylene in an autoclave, at 160-180°C and 20 atm, over Cd acetate, inhibiting polynomia and autoclave. merization with hydroquinone. Optimum conditions for this reaction shall be determined in future work. Succinic monoesters were found to be too unstable to be treated in this manner. Vinyl n-R esters (R=methyl to docyl inclusive) of succinic and adipic acids were prepared, in 30-70 and

Card 1/2

S/079/62/032/003/003/007 D204/D302

Vinyl monomers based on ...

30-97% yields respectively, by the action of vinyl acetate on the corresponding monoester at either 20°C for 5-7 days or 30-40°C for 50 hrs. using Hg acetate/conc. H₂SO₄ as a catalyst and hydroquinone as an inhibitor. The yields were reduced at higher temperatures. Experimental details are given and physico-chemical properties of the products are tabulated. There are 2 tables and 12 references: 6 Soviet-bloc and 6 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,153,987, 1:cations read as follows: US Pat. 2,472,434,(1949); US Pat. 2,472,434,(1949); US Pat. 2,472,472,474,(1949); US Pat. 2,472,474,(1949); US Pat. 2,472,47

SUBMITTED: January 30, 1961

Card 2/2

S/080/62/035/005/015/015 D247/D307

Freydlin, G. N. and Davydov, V. N. AUTHORS:

Separation of phthalic acid by esterification without

TITLE: a catalyst

Zhurnal prikladnoy khimii, v. 35, no. 5, 1962, PERIODICAL:

1150-1153

TEXT: The authors aimed at developing a method of separating isophthalic (I) and terephthalic (II) acids, based on selective esterification with MeOH under pressure, to obtain II from a mixture of m- and p-xylenes rather than from the expensive pure p-xylene. The relative rates of esterification varied with temperature, MeOH:acid ratio (n) and time. Thus the rate of esterification of I, MeOH:acid ratio (n) and time. Thus the rate of esterification of I, at 170 - 180°C and 100 - 200 atm, is 7 - 10 times greater than that of II; raising (n) increased the rate of reaction of II at 180°C (cycle 1 br) but not of I Brosses of the rate of (over 1 hr) but not of I. Presence of water retarded both processes to the same extent. The optimum time was 40 - 80 min. The content of II could be raised from 25 - 60% to 87 - 96% by esterification

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FREYDLIN, G.N.; DAVYDOV, V.N.

Separation of terephthalic and isophthalic acids by extraction with hot methanol. Zhur.prikl.khim. 35 no.ll:2520-2526 N '62. (MIRA 15:12) (Terephyhalic acid) (Isophthalic acid) (Methanol)

FREYDLIN, G.N.; LITOVCHENKO, N.N.

Imparting water repellent properties to polyvinyl alcohol with beta-naphthalenesulfonic acid. Khim.volok. no.2:15-18 '63.

(MIRA 16:5)

1. Lisichanskiy filial Gosudarstvennogo nauchno-issledovatel'skogo i proyektnogo instituta azotnoy promyshlennosti i produktov organicheskogo sinteza.

(Vinyl alcohol polymers)
(Naphthalenesulfonic acid)

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CIA-RDP86-00513R000413620020-3

L 17480-63 EWP(j)/EWT(m)/BOS ASD PC+4 RM ACCESSION NR: AP3004760 S/0183/63/000/004/0024/0026

AUTHORS: Freydlin, G. N: Litovchenko, N. N.; Oghovskaya, G. D.

62

TITLE: Chemical processes occurring in waterproofing with polyvinyl alcohol of Bota-naphthalene sulfonic acid

SOURCE: Khimicheskiye volokna, no. 4, 1963, 24-26

TOPIC TAGS: polyvinyl alcohol, naphthalene, sulfonic acid, waterproofing.

ABSTRACT: Authors investigated the mechanism of the waterproofing method worked out by Freydlin and Litovchenko (Khim. volokna, no. 2, 1963, 15). It was established that the waterproofing is effected by the formation of B-naphthalene sulfonic acid esters of polyvinyl alcohol (PVA). Chemical and X-ray studies indicated that the given method does not cause discernible changes in the crystallinety of the polyvinyl alcohol. "In conclusion we express thanks to V. A. Naumov and V. A. Kachanov (Lieichanskiv filial GIAP) for help and participation in carrying out X-ray analysis and radiometric measurements". Orig. art. has:

ASON: LISICHANSK BRANCH, STATE DESIGN AND PLANNING SCI. RES. INST. FOR THE NITROGEN INDUSTRY.

Card 1/2/

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CIA-RDP86-00513R000413620020-3

L 14948-63

EWP(1)/EPF(c)/EWT(m)/BDS ASD Pc-4/Pr-4 RM/WW

ACCESSION NR: AP3003790

S/0190/63/005/007/1008/1011

AUTHORS: Freydlin, G. N.; Zhenodarova, S. M.; Fondna, N. V.; Chukur, A. P.

66

TITLE: Polymerization of vinylalkyl esters of dicarboxylic acids

15

SOURCE: Vy*sokorolekulyarny*ye soyedineniya, v. 5, no. 7, 1963, 1008-1011

TOPIC TAGS: polymerization, vinylalkyl ester, dicarboxylic acid, benzoyl peroxide

ABSTRACT: The polymerization process of vinylalkyl esters of succinic, glutaric, and adipic acids was studied. Experiments were conducted in sealed ampules containing 20 gms of the monomer and 0.1 gm of dissolved benzoyl peroxide in an atmosphere of either nitrogen or air. The ampules were placed in a water bath at temperatures ranging from 65 to 120C, and the progress of the polymerization followed by brondne number determination. It was found that the rate of polymerization increased with the temperature, the yield of the vinylmethylsuccinate polymer at 100C being more than ten times the yield at 80C. In a vacuum the polymerization proceeded at a higher rate and at lower temperatures, while the presence of oxygen delayed it. It was also recorded that the esters of adipic acid polymerize somewhat faster as compared with the esters of succinic and glutaric acid. But it

Card 1/2

1 14948-63

ACCESSION NR: AP3003790

was also found that the induction period of polymer formation increases from vinylmethylsuccinate to vinylhexylsuccinate and practially ceases with the vinylhyptylsuccinate ester. Orig. art. has: 1 chart and 4 tables.

ASSOCIATION: Lisichanskiy filial gosudarstvennogo nauchno-issledovatel'skogo i proyektnogo instituta azotnoy promy*shlennosti i productov organicheskogo sinteza (Lisichan Branch of the State Scientific Research and Production Institute of the Nitrogen Industry and Products of Organic Synthesis)

SUBMITTED: 18Dec61

DATE ACQ: 08Aug63

ENCL: 00

SUB CODE: CH

NO REF SOV: OOA

OTHER: 004

Card 2/2

BEYDLIN, G.N.

8/079/63/033/003/005/005 A066/A126

AUTHORS:

Freydlin, G.N., Zhenodarova, S.M., Chukur, A.P., Fomina, N.V.

TITLE:

Vinyl monomers on the basis of dicarboxylic acids. III. Vinyl alkyl esters of glutaric acid. Vinyl cyclohexyl and vinyl benzyl esters of succinic, and adipic acid

PERIODICAL: Zhurnal obshchey khimii, v. 33, no. 3, 1963, 934 - 938

The authors describe the synthesis of vinyl alkyl esters of glutaric acid and of normal aliphatic alcohols from methyl to decyl alcohol, as well as the synthesis of vinyl cyclohexyl and vinyl benzyl esters of succinic, and adipic acid. The purpose of the present work was to study the influence exerted by the structure of the substituent in the side chain on the properties of the polymer. The vinyl esters were synthesized as follows: dicarboxylic acid was transformed into a monoester by partial esterification with suitable alcohols. The monoester was subjected to a "vinyl exchange" reaction with the participation of vinyl acetate. The monoalkyl glutarates were found to be very stable, colorless liquids which are able to withstand vacuum distillation. Furthermore, they boil in vacuo at high temperatures.

Card 1/2

Vinyl monomers on the basis of ...

s/079/63/033/003/005/005

The monocyclohexyl and monobenzyl esters of succinic, glutaric, and adipic acid boil at high temperatures and decompose during distillation. There are 4 tables.

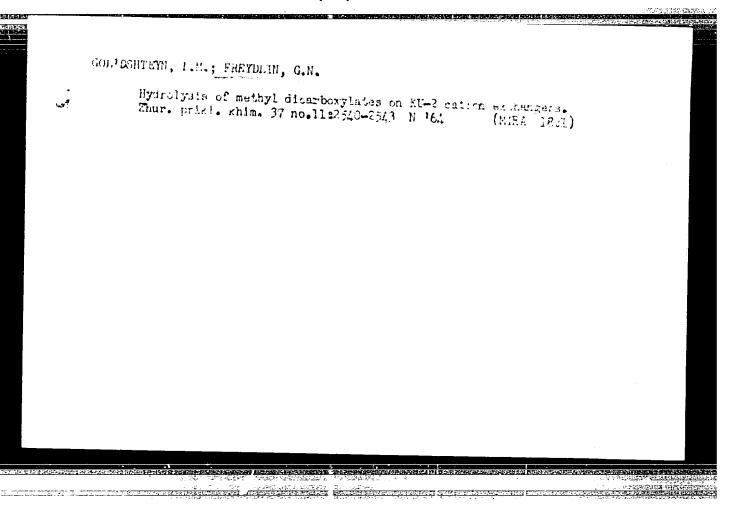
ASSOCIATION: Lisichanskiy filial Gosudarstvennogo instituta azotnoy promyshlennosti i produktov organicheskogo sinteza (Lisichansk Branch of the State Institute for the Nitrogen Industry and for Products of Organic Synthesis)

SUBMITTED:

February 27, 1962

Card 2/2

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620020-3



"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620020-3

FREYDLIN, G.N.; SOLOP, K.A.

Kinetics of the polymerisation of vinyl ester of N.N-disobutylglutaramide.
Vysokom. soed. 7 no.6:1060-1064. Je '65. (MIRA 18:9)

1. Filial Cosudarstvennogo instituta azotnoy promyshlennosti, proceedings.

Severodonetsk.

GOL DENSHTEYN, I.M.; FREYDLIN, G.N.

Hydrolysis of diesters of dicarboxylic soids on the KU-2 cation exchanger. Zhur.prikl.khim. 38 no.6:1345-1348 Je 165.

(MIRA 18:10)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620020-3

FREYDLIN, G.N.; ADAMOV, A.A.; ZAYTSEV, P.M.

Vinyl monomers on a base of dicarboxylic acids. Part 6:
Direct vinylation of the monoesters of dicarboxylic acids
with acetylene. Zhur. org. khim. 1 no.4:666-670 Ap '65.

(MIRA 18:11)

FREYDLIN, G.N.; CHUKUR, A.P.; DZAROKHOKHOVA, L.I.

Vinyl monomers based on dicarboxylic acids. Part 7: Vinyl alkyl esters of axelaic and sebacic acids. Zhur. org. khim. 1 no.8:1367-13:9 Ag *65. (MIRA 18:11)

GOL DERE HTEXH, L.M.; FREXDLIN, G.H.

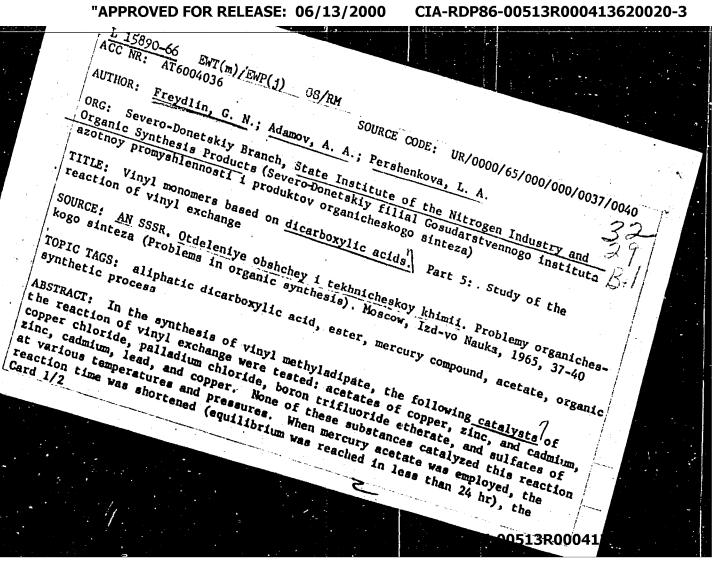
Hydrolysis of diesters of diearboxylic acids on ion exchangers. Zhur.prikl.khim. 38 no.11:2538-2540 N *65.

Hydrolymis of diesters of carboxylic acids on the KU-2 oution exchanger under dynamic conditions. Thid.:2541-2544

(MIRA 18:12)

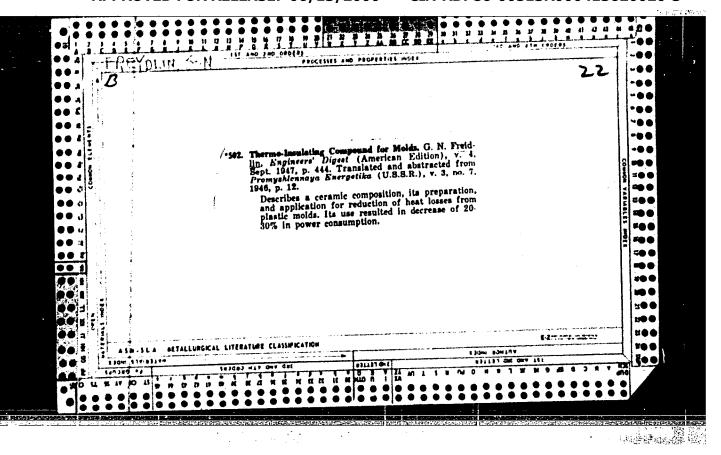
1. Submitted November 14, 1963.

"APPROVED FOR RELEASE: 06/13/2000

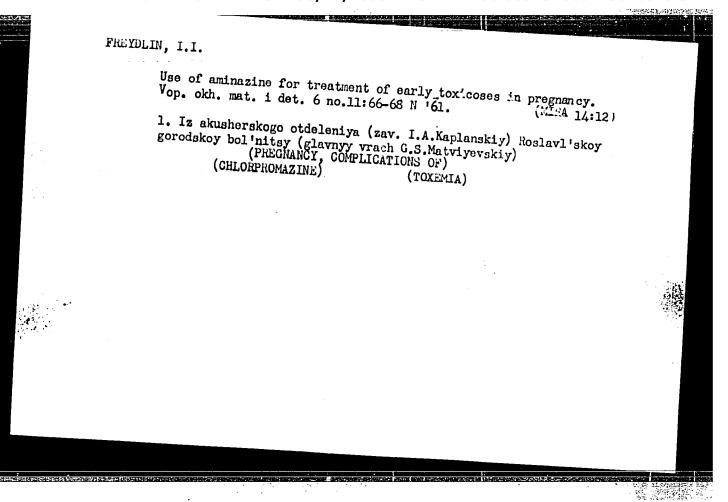


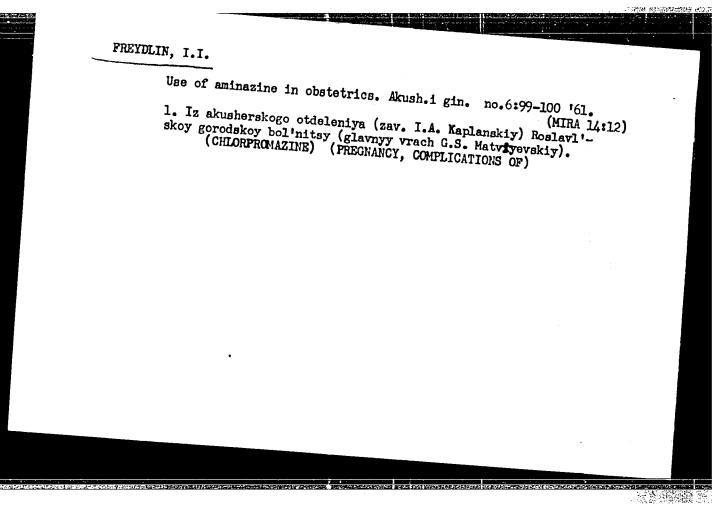
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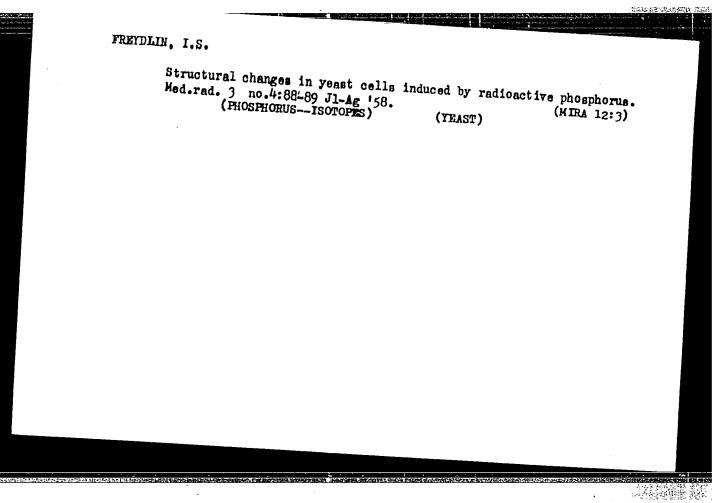




FREYDIN, I.L.; MONAKHOVICH, L.S.

Several problems in developing the industry and transportation of the European part of the northern U.S.S.R. Prob. Sev. no.5:19-31 163. (MIRA 16:11)

1. TSentral'nyy ekonomicheskiy nauchno-issledovatel'skiy institut Gosplana RSFSR.



17(2,12)

SOV/16-59-6-32/46

AUTHOR:

Freydlin, I.S.

TITLE:

The Antibacterial Action of Extract From Leukocytes of Rabbit Peritoneal Exudate. Author's Summary

PERIODICAL:

Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, Nr 6, p 125 (USSR)

ABSTRACT:

The author studied the antibacterial action of extract from leukocytes of rabbit peritoneal exudate on Staphylococcus aureus and Shigella flexneri c in vitro. The Staphylococcus aureus strains had marked hemolytic and plasma-coaggulating properties. The tests showed that extracts prepared from suspensions below a density of 30,000 leukocytes per cu mm had no antibacterial action, whereas extracts from suspensions of 30,000 - 50,000 leukocytes/cu mm had definite antibacterial properties. Extracts from suspensions of 65,000 - 90,000 leukocytes/cu mm prevented the growth of colonies on the liquid nutrient medium. Shigella flexneri were more resistant than Staphylococcus aureus to the leukocyte extract. In a number of cases Staphylococcus aureus strains lost their pathogenicity as a result of contact with the extract. The leukocyte extract proved more effective at 37° than at 4°C. The extracts were also relatively thermo-

Card 1/2

The Antibacterial Action of Extract From Leukocytes of Rabbit Peritoneal Exudate. SOV/16-59-6-32/46

stable, withstanding heating up to 65°C for 30 minutes. However, they lost their bactericidal activity after boiling for 10 minutes. Storage of the extract at 15°C for 2 months led to a decrease in its bactericidal activity of 7-8 times. The results showed that the leukocytes of rabbit peritoneal exudate contain an active bactericidal agent which can be liberated from the leukocytes by extraction.

ASSOCIATION: Kafedra mikrobiologii I Leningradskogo meditsinskogo instituta imeni Pavlova (Department of Microbiology at the Leningrad No I Medical Institute

SUBMITTED:

June 27, 1958

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620020-3"

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FREYDLIN, I.S.

"D.K. Zabolotnyi (1866-1929)" by IA.G. Gimmel'farb, K.M. Grodskii; in series "Outstanding figures in Russian Medicine." Reviewed by I.S. Freidlin. Sov.zdrav. 18 no.4:57-58 '59. (MIRA 12:4) (ZABOLOTNYI, DANIIL KIRILLOVICH, 1866-1929) (GIMMEL'FARB, IA.G.) (GRODSKII, K.M.)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620020-3"

FREYDLIN, I.S., vrach (Leningrad)

"Road to health" by IA. N. Trakhtman. Reviewed by I.S.Freidlin.

Zdroov'e 6 no.4:32 Ap '60.

(HYGIENE) (TRAKHTMAN, IA.N.)

(HYGIENE) (TRAKHTMAN, IA.N.)

FREYDLIN, I.S.

Change in the phagocyte activity and some cytochemical reactions of leukocytes in the peritoneal exudate of guinea pigs during the process of immunization. Biul. eksp. biol. i med. 52 no.9:80-83 S '61.

1. Iz kafedry mikrobiologii (zav. - prof. V.N. Kosmodamianskiy) I Leningradskogo meditsinskogo instituta imeni I.P. Pavlova. Predstavlena deystvitel'nym chlenom AMN SSSR N.N. Zhukovym-Verezhnikovym. (PHAGOCTYTOSIS) (EXUDATES)

(IMMUNITY)

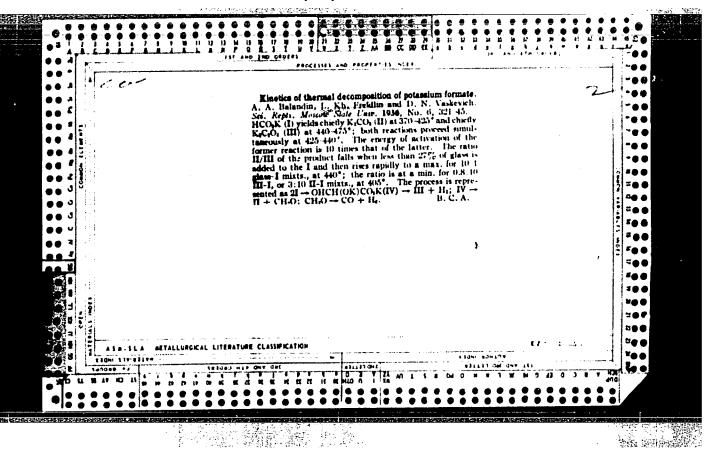
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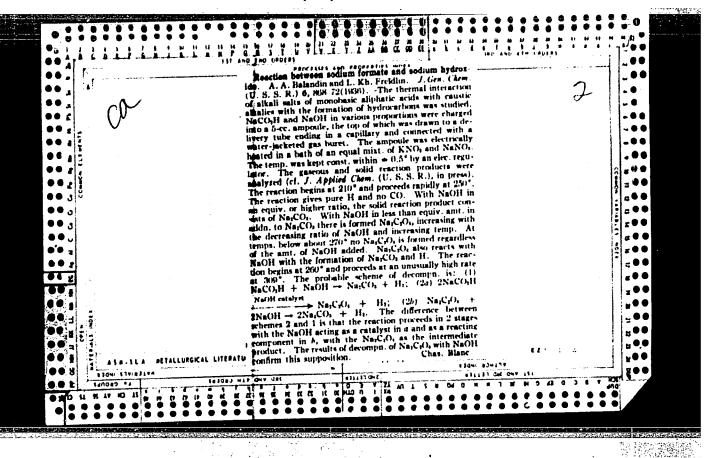
FREYDLIN, I.S.

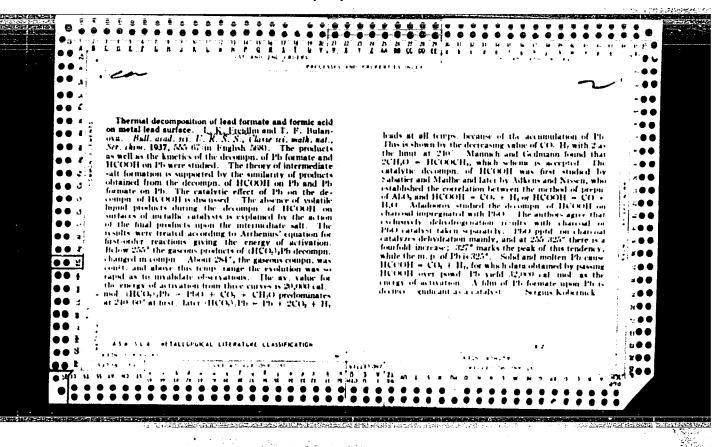
Phagocytic activity and some cytochemical reactions of leucocytes in peritoneal axudate of guinea pigs following immunization with tetravaccine under conditions of different paturation of the body with vitamin C. Zhur. mikrobiol. epid. i immum. 33 no.10r101-105 0162 (MIRA 17:4)

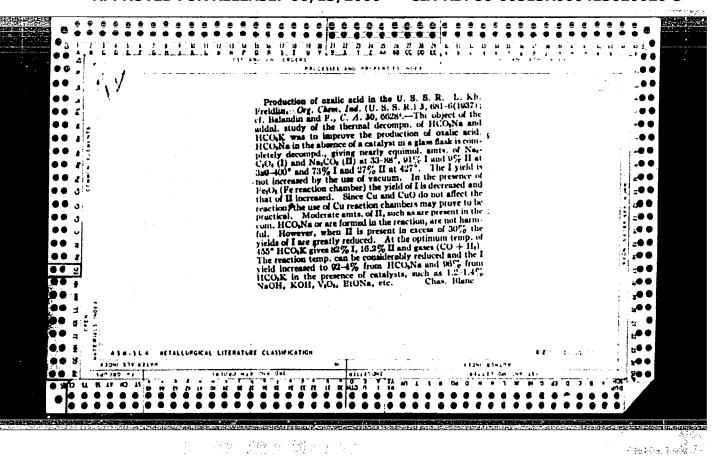
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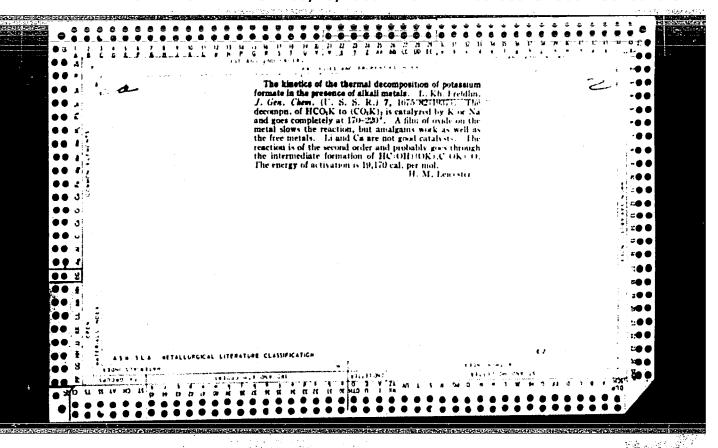
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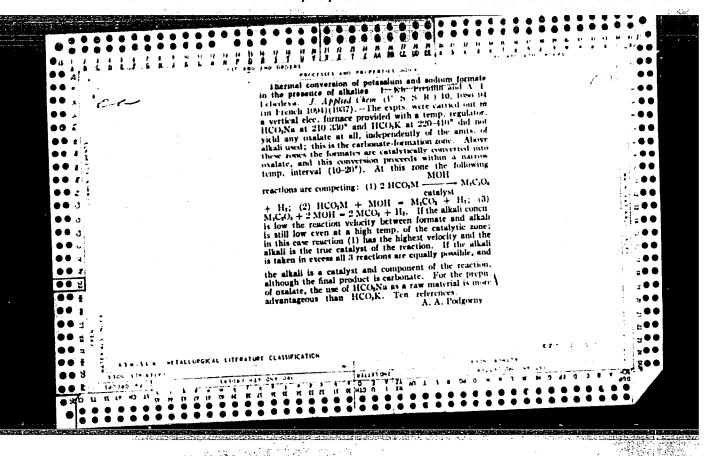


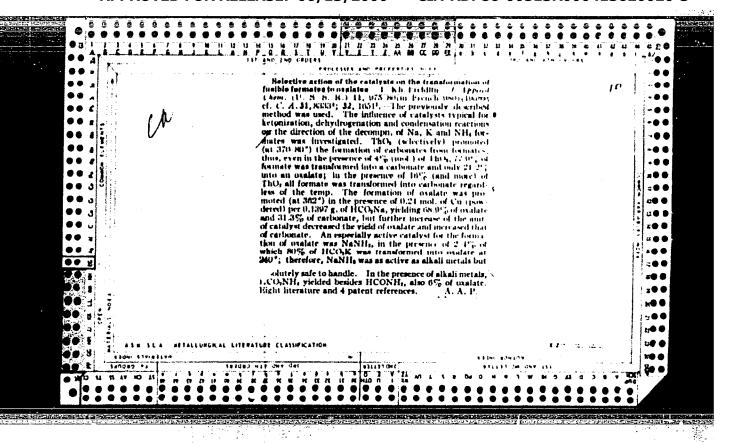


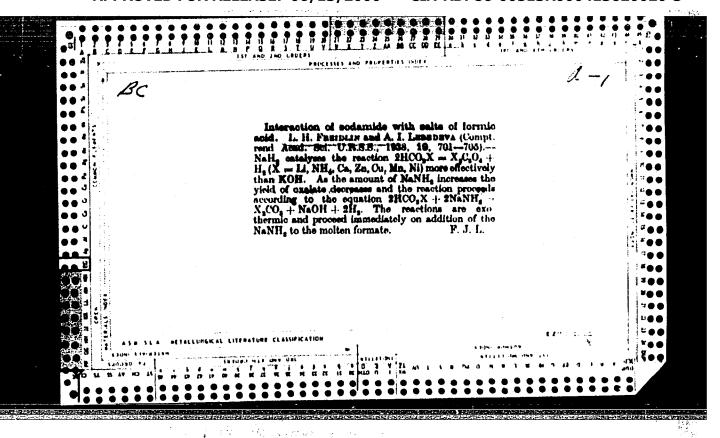


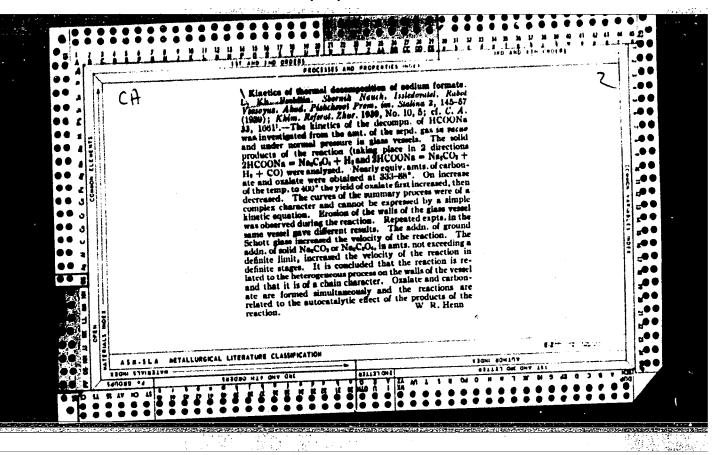


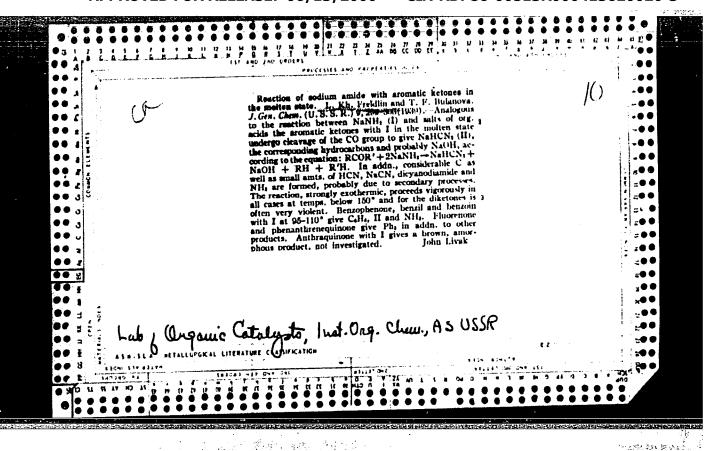


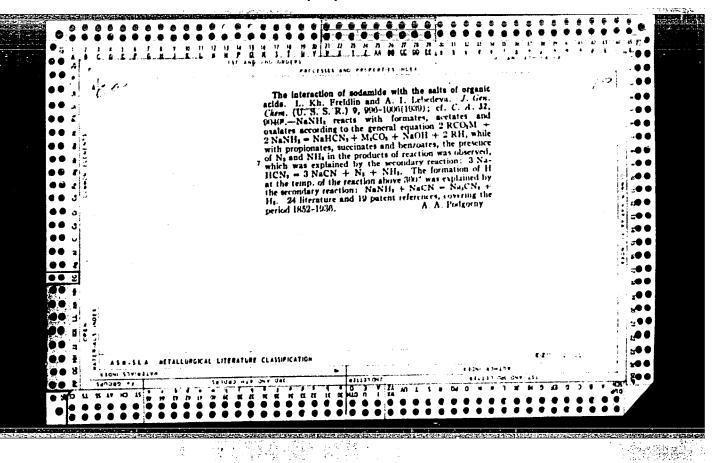


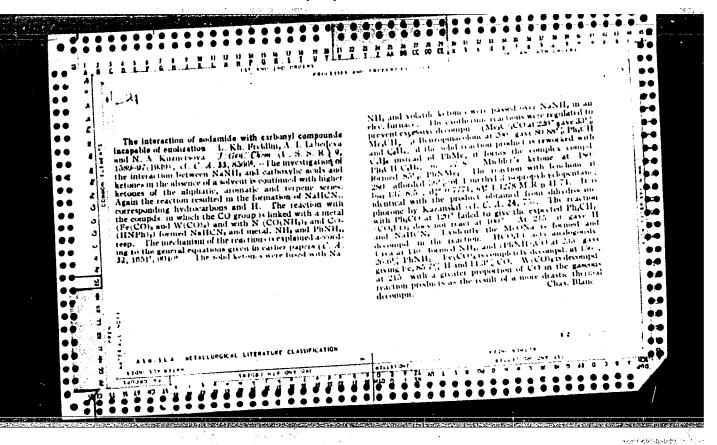


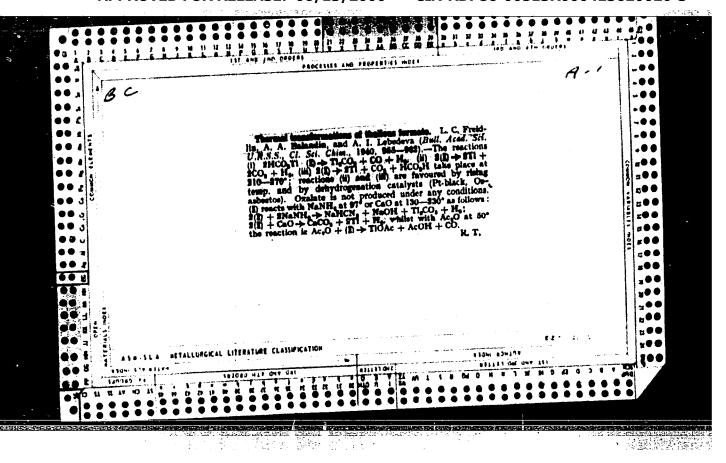


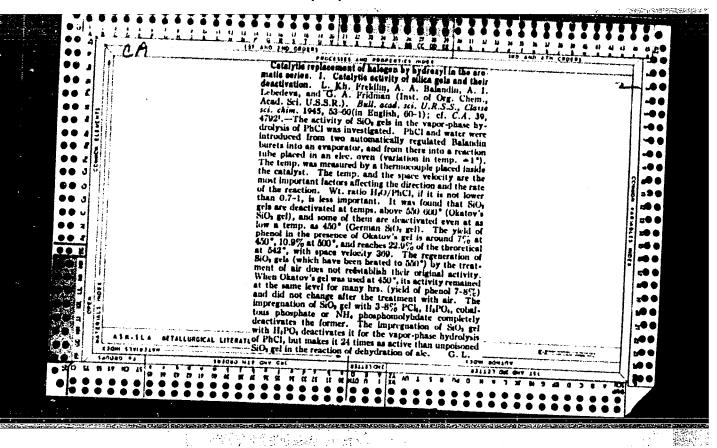


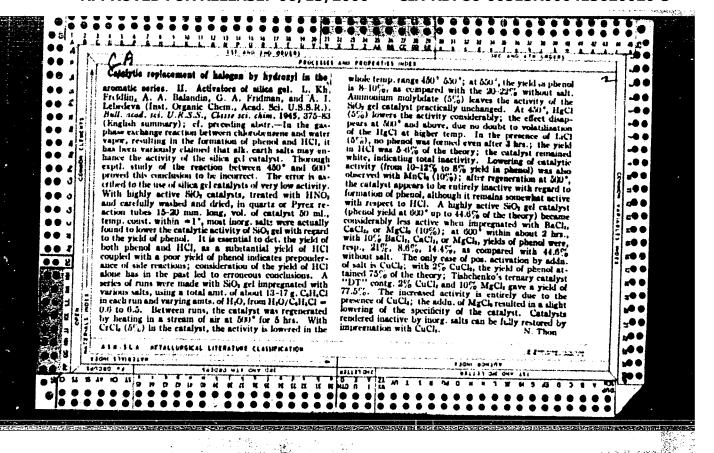


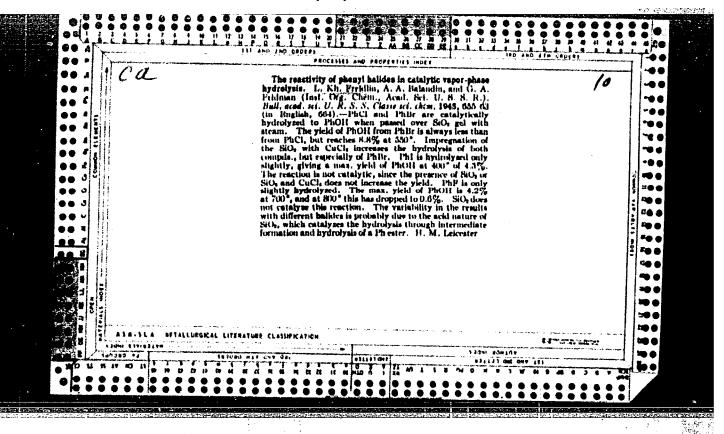


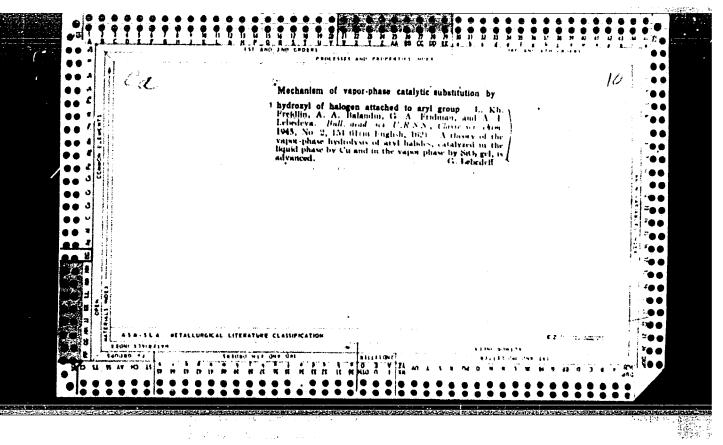


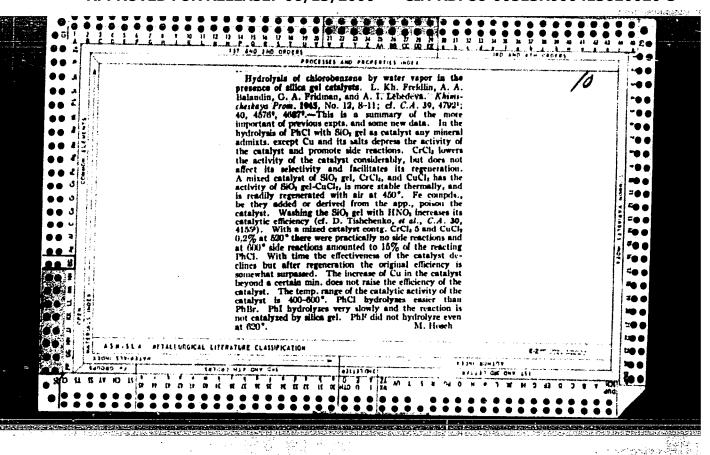


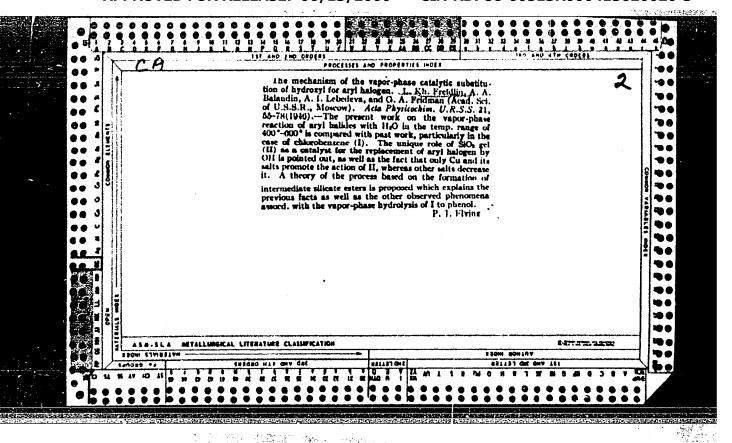


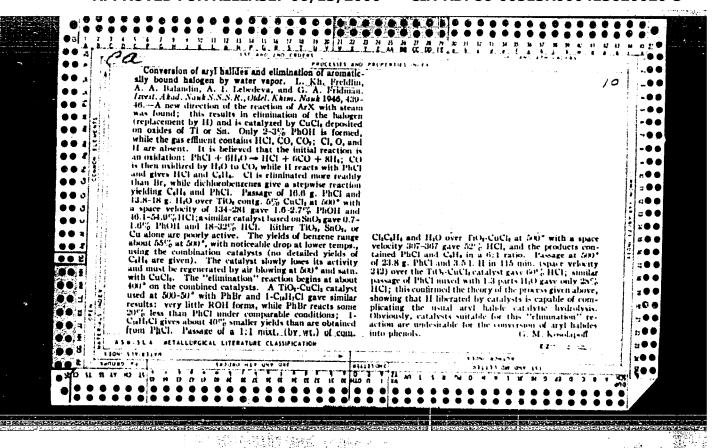


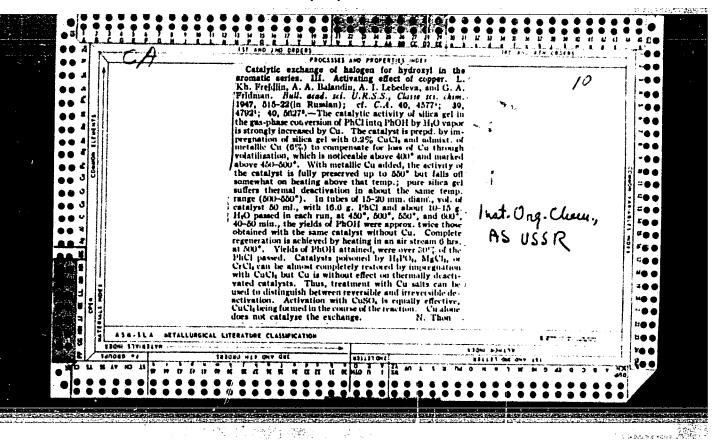












HEYMARK, I.E.; FREYDLIN, L.Kh.; FRIDMAN, G.A.; SHEYNFAYN, R.Yu.

Structural changes of a silica-gel catalyst during its poisoning.

Dop.AN URSR no.5:27-32 '49. (MIRA 9:9)

l.Institut fizichnoi khimii imeni L.V.Pisarshevs'kogo AN URSR i Institut organichnoi khimii AN URSR. Predstaviv diysniy chlen AN URSR O.I.Brods'kiy. (Catalysts) (Silica)

Rupture of the ether bond in phenol ethers. II. Catalytic decomposition of anisole and phenetole. L., Kh. Fredlin, A. A. Balandin, and N. M. Nazarova. Invel. (1864. Nauk S. N. S. K., Oldel. Kkim. Nauk 1949, 198-201; cf. C. A. 43, 57786. In uncatalyzed low-temp. pyrolysis of PhOMe and PhOEt ton the temp. range of 482-7078 and 449-649. [1891.], in glass tubes, the primary step. PhOR = PhOHI + R.; where R. is an alkylidene radical, C. H., Fr. is followed by R.; + PhOHI = RC. H. Oll, and accompanied by a side reaction of the rearrangement type. PhOMe and PhOEt. arc 51.7 and 06.2%, at 040% and at 574%, resp. They fall with further rising temp. These yields can be substantially improved only if the reactions are conducted at lower temps, in the presence of catalysts. No PhOH was obtained from PhOMe at 443% on silva gel in the absence of H.O. With mixts., PhOMe = H.O. (1: 1072; th) wt.), at 574% and 007%, space velocity approximates to glass and 24%, at 047%; in both cases, H.O. only promotes the pyrolysis, but does not react, as evidenced by the absence of products of hydrolysis (MeOH). In contrast to glass and to silica gel, active silicates catalyze the pyrolysis efficiently. With PhOMe (without H.O.), at 282, 346, 440, 443, and 482%, the yields of PhOH were 17.0, 53.7, 75.2 (max.), 68.4, and 53.3%. Decompn. and is max. at 440% whereas without catalyst there is no reaction yet at 443%. In the presence of a catalyst, no gas is evolved at 443% and only 440 min gas is evolved from 9.64 g. PhOMe at 482° (CH., CO, and H., no unsatd.). The catalyzate contains PhOH and cresols, but no BzH and no PhCH₁OH; consequently, the isomerization reaction

which takes place as a side reaction in uncatalyzed pyrolysis is suppressed. He O vapor lowers the yields of 19(1)11, e.g., at 340°, H.O.PhOM, as 0.9.1 chy with PhOH = 25°, and, at 443°, H.O.PhOM, as 0.9.1 chy with PhOH = 25°, and, at 443°, H.O.PhOM = 0.6°1, PhOH = 25°, and, at 443°, H.O.PhOM = 0.6°1, PhOH = 25°, and, at 443°, H.O.PhOM = active centers, and indicates absence of a hidrolytic reaction between PhOMe and H.O. The activity of the catalyst can be fully restored by treatment with air at 350°, and is max, 81.2°°, at 36°. The amit of gas evolved is less than in uncatalyzed pyrolysis, but it contains more CH, (83.1°), at 384°. The liquid citalyzate contains PhOH and alkylphenols, no BzH. The yields of PhOH are decreased in the presence of H.O. N. Thon

Catalytic replacement of halogen by hydroxyl in the atomatic ring. [V. Vagor-phase hydrolysis of o- and p-chlorophenols and o- and p-chlorophenols and o- and p-chlorophenols. [Kh. Fredlin and G. A. Fridman (Acad. Sci., U.S. R.).

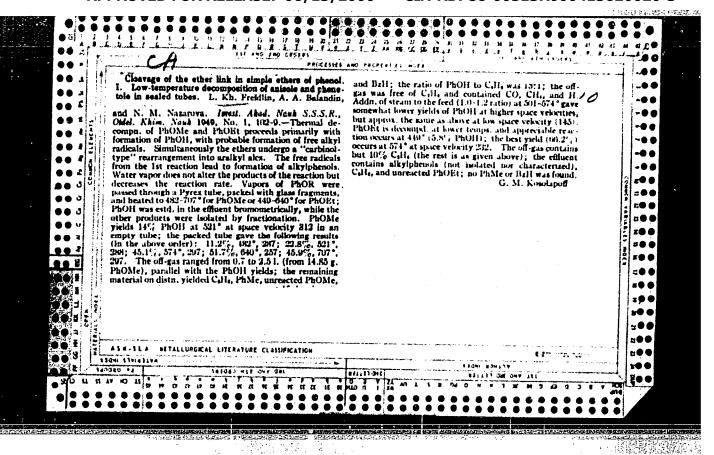
Irvoli, Abdd. Nauk 5.5.3.K., Obdd. Khim, Nauk 1949.

317-25; cf. C. A. Fridman (Acad. Sci.), U.S. R.).

GSUM.—Hydrolysis of p-Clcliff.olf at 360 over porcelain chips gave no HCl or hydroquinous; over silka gel a conversion of 1857-was reached, and 8.8% hydroquinous two-particles and 1.8% hydroquinous at 360 and 12% at 350°, based on the ant. of ClClif.OH introduced; the latter figure corresponds to 22% conversion; the yield of HCl always exceeded that of hydroquinous; traces of resorcinol (up to 1.2%) were also detected. The high yield of HCl (Callatoff over silica promoterd by CuCl. gave a 37% pHOI). o-ClClif.Off over silica promoterd by CuCl. gave a max. yield of HCl (33%) at 550° (10.8% at 560°, but the procatechol yield was low: 3.9% at 480°, but the procatechol yield was low: 3.9% at 480°, but the procatechol yield was low: 3.9% at 480°, but the procatechol yield was low: 3.9% at 480°, procatechol and 0.1.7% o-ClC. H.OH at 600°; at 580° the values are 1.4 and 4.8%; resp., while at 600°; at 580° the values are 1.4 and 4.8%; resp., while at 600°; at 580° the values are 1.4 and 4.8%; resp., while at 600° at 580° the values are 1.4 and 4.8%; resp., while at 600° at 580° the values are 1.4 and 4.8%; resp., while at 600° at 580° the values are 1.4 and 4.8%; resp., while at 600° at 580° the values are 1.4 and 4.8%; resp., while at 600° at 580° the values are 1.4 and 6.8%; hydroquinone at 600°; the CCH.H.OH yield abo developmentory of the converted by converted by a converted by the converted by a converted by a converted by a converted by the converted by a converted

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CA

Relation between the type of the porosity of a silica get and its catalytic properties. 1. Kh. Prefolin, 1. R. Neimark, G. A. Fridman, R. Yu. Sheiliain and F. I. Khatset (Inst. Org. Chem., Acad. Sci. U.S.S.R., Moscow). Invest. Abad. N.S.S.R., Ondel. Khim. Nauk 1930, 521-30.—The fact that vapor-phase hydrolysis of aryl halides is catalyzed by the typically hydrophilic catalyzer silica get proves that the activation bears on the H₂O; a typical activator of aryl halide, Cu., down not catalyze the reaction. Only nomining the catalytic activity of a silica get is governed not only by the d. of these centers but by the vol. of the micropores, which dets. the sp. surface area, and the ant. of intermediate pores necessary for the transport of reactants and products. Yields of PhOH and of HCl, from PhCl and H₂O passed in approx. equal ants., at ~300 g/l. catalysts/br., in 110-min. (11 g. PhCl) runs at increasing temps. from 450 to 550°, with air-stream regeneration at 525° between runs, were detd. for 6 types of silica get catalysts with the following characteristics (total pore vol., micropore vol. (ml./g.), vol. of absorbed liquid Calls at the sam. pressure, vol. of intermediate pores (ml./g.), Brunauer-Bannett-Teller sp. surface area in sq. m./g.; (1) 0.00, 0.33, 0.00, 0.39, 300; (11) 0.40, 0.30, 0.48, 0.19, 480; (11) 0.40, 0.30, 0.48, 0.19, 600; (11) 0.40, 0.30, 0.48, 0.19, 600; (11) 0.40, 0.32, 0.40, 0.14, 500; (11) 0.40, 0.31, 0.40, 0.14, 500; (11) 0.40, 0.32, 0.00, 0.18, 0.94, 0.76, 326. Curves of the yield of PhOH (in %) against the temp. are of 3 types: Catalysts I, IV, and V have a distinct max, at about 100°; is the subsequent fall of the rate is due to irreversible thermia describation. This is most marked with catalyst I which has the smallest vol. of intermediate pores. The 30d type is represented by II and III. Catalyst II has a low activity, practically independent of the temp. between 450 and 500°.

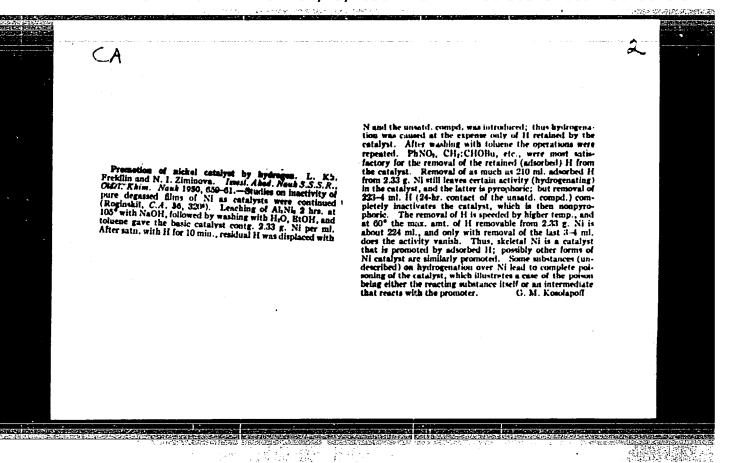
III has a temp.-independent activity between \$50 and \$600°, followed by a fail. Absence of an increase of the activity with the temp. in the case of II is attributed to the insufficiency of intermediate pores, i.e. to inadequate diffusion. This same factor is responsible for the relatively not very high activity of III, despite its very high microporeality is an 3-shaped curve with the yield steadily increasing with temp, up to \$50°. The selectivity of the catalysts, characterized by the yield ratio IICl/PhOH, is different for the 3 types. It is lowest with silica gels II and III, with the IICl/PhOH yield ratio increasing very strongly with the temp., from about \$50° and \$60° on, resp. With the gels I, IV, and V, the ratio begins to increase with the temp, from \$60° on, with VI, it remains very nearly temp, independent, ~1. The thermal stability, expressed by the ratio of the PhOH yields at \$600 and \$600° decreases in the order VI (0.8), V (1.1), IV (1.4), I and III (2.4), i.e. the least microporous VI is the most thermostable; catalysts I and III, having the smallest vol. of intermediate pores, are the least stable. Catalyst II is not included in this evaluation on account of the precioninant role of inhibited diffusion. An imported silica gel, found to be very highly active at \$50°, but almost completely inactivated at \$50°, was found to be very highly microporous, and, by the reversibility of its McOH-vapur adsorption curve, almost completely devoid of intermediate pores, which accounts for its exceptionally pour thermostability.

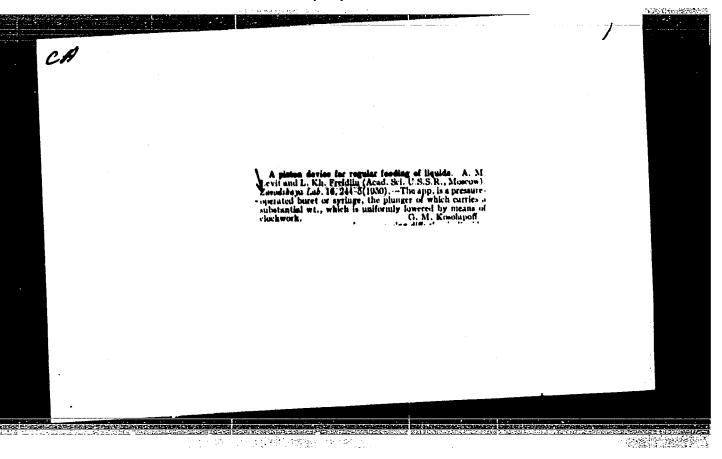
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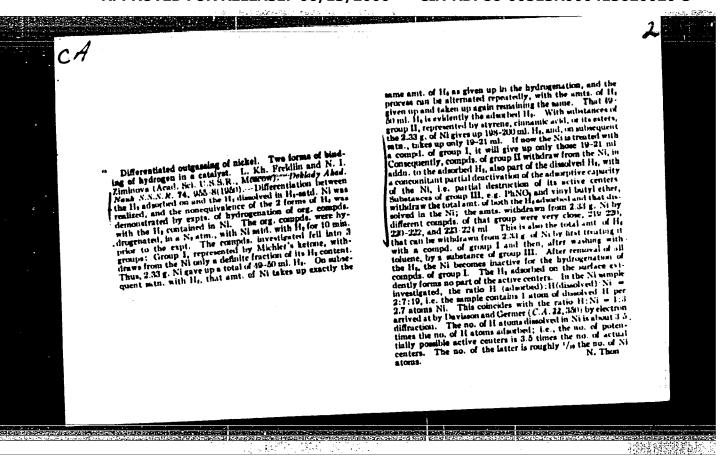
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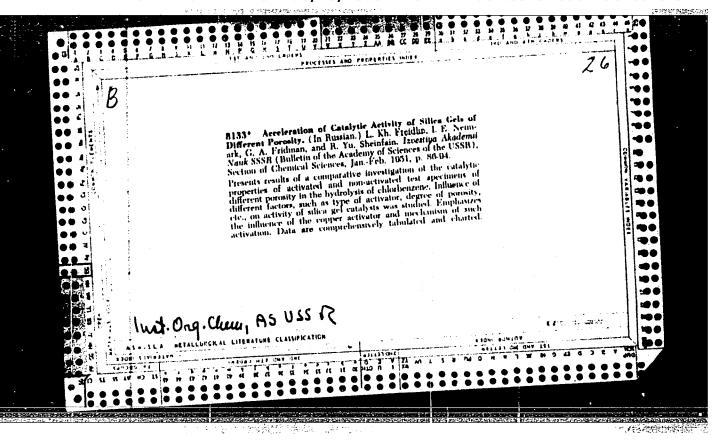
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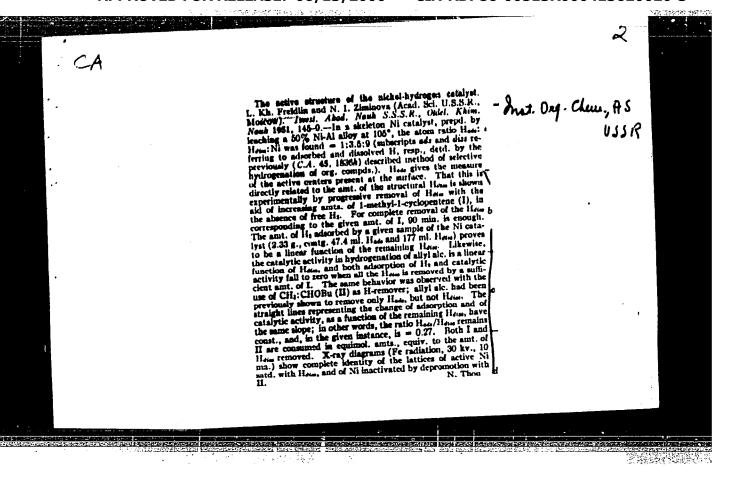
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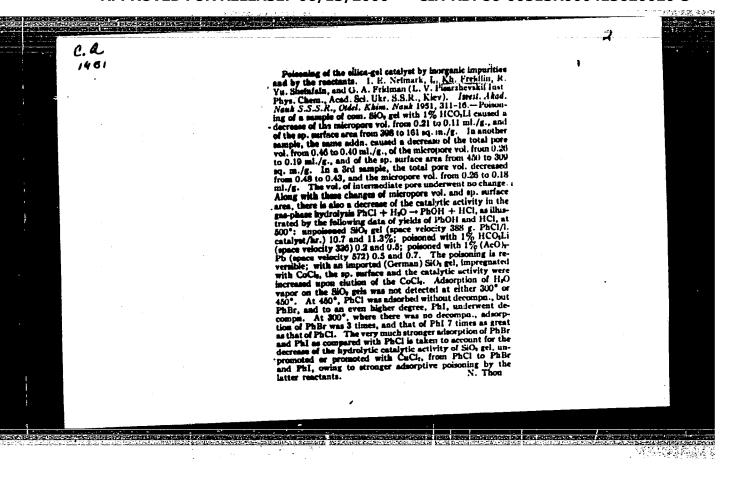












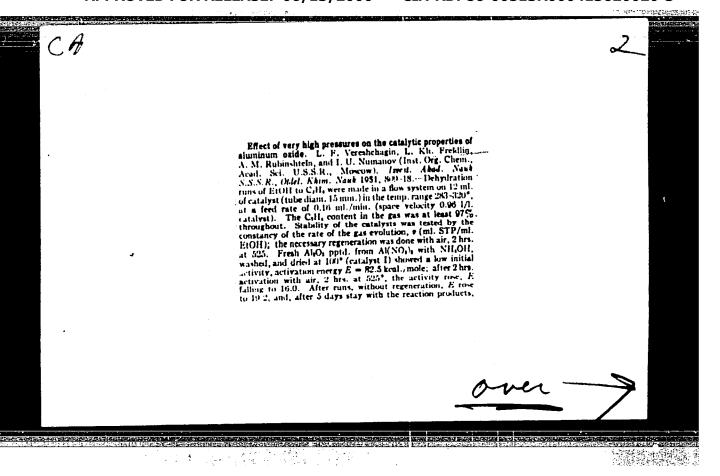
FREIDLIN, L. Kh.

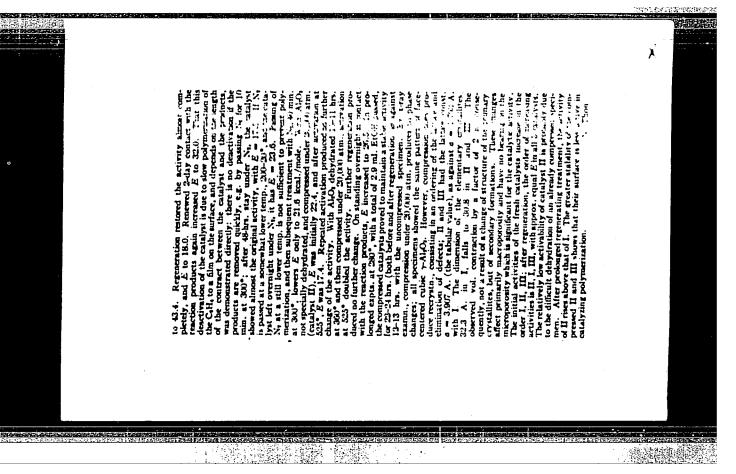
Kinetics of dehydration of formic acid on phosphate satalysts and on aluminum oxide M. Rh. Errollin and A. M. Levit (Inst. Org. Chem. Acid. Sci. Sci. M. Moscow.)

Izvest. (Kad. Nauk S.S.S.R., Oldel. Khim. Nauk 1051, 125-30; cf. Zhur. Obshchri Khim. (J. Gen. Chem.) 21, 1255 (1951).—Flow expts. were made at a feed rate of 0.16 ml. HCO₁H (82 or 100%)/min., on 20 ml. catalyst (wt. 9-11 g., length of column 6 cm.), with analyses of the gas for CO. The exptt. data (temp., ml. gas evolved per ml. HCO₁H, degree of decompu. in %) are: on Ca(H₁PO₂h, with 82% HCO₁H: 167°, 30.2, 8.4; 182°, 82.0, 17.7; 108°, 156.0, 33.7; 201°, 184.0, 40.0; 210°, 242.0, 52.2; 218°, 342.0, 73.8%; on Ca₁(PO₂), with 82% HCO₂H: 172°, 20.0, 4.3; 198°, 49.5, 10.7; 200°, 63.7, 13.7; 220°, 121.0, 26.1; 236°, 190.0, 40.9; 248°, 250.1, 56.1; 250°, 303.2, 65.4%; on Ca₂(PO₂), with 100% HCO₂H: 172°, 30.4, 0.6; 270°, 591.0, 100.0%. The gas evolved, in all cases, is 100% CO. The activation energies E (kcal./mole) and preexponential factors k₃ are (with 82% HCO₂H), no Ca(H₂PO₂), 17.0 and 4.8 × 10°, and on Ca₂(PO₂)₁, 15.2 and 5.2 × 10°. These catalysts are, consequently, highly selective in the sense of dehydration of HCO₂H as against dehydrogenation, and highly active. At a feed rate of 0.22 ml./min., at 270°, 93.1 ml. pure CO were evolved for 1 ml. HCO₂H, as against 93.8% decompn., with only 94.8% CO in the gas, obtained by Graeber and Cryder (C.A. 29, 6208) on his best catalyst, ThO₂ on silica get at 280°. The phosphates relain undiminished activity after 20 hrs. service. The data for Ca₂(PO₂), fired 6 hrs. at 800° (with 82% HCO₂H) are: 201°, 31.0, 6.7; 240°, 135.1, 29.1; 254°, 157.0, 33.0; 278°, 293.2, 63.2%; CO content in gas 00.0-90.5%; E = 10.2, k = 3.5 × 10°. For Ca(H₂PO₂), heated 1 hr. at 250-300°; 147°, 25.8, 5.0; 157°, 50.0, 10.8; 170°, 104.0, 22.4; 178°, 168.1, 30.3%; CO in gas 100%, E = 22.7, k = 3.2 × 10°.

The firing results in a decrease of the rate by one half, with innehanged E. Preliminary heating to 260-300° increases the rate very considerably, despite some increase of E. The activity of Al₂O₁ is both lower and less selective than that of the Ca phosphates. Exptl. data with Al₂O₂ (concapture of HCO₂H, temp., ml. gas evolved/ml. HCO₂H, degree of decompn. of HCO₂H in %, CO content in gas in %) are: 100°%: 261°, 112.1, 18.8, 94; 310°, 494.0, 83.2, 93; 72%: 261°, 70.4, 20.2, —; 310°, 362.0, 92.3, —; 52%: 201°, 62.5, 23.0, —; 310°, 260.0, 98.2, —; 39%: 261°, 42.5, 21.2, 82; 310°, 187.5, 94.2, 80. Treatment of Al₂O₂ by impregnation with K₂O lowers the selectivity still further; with 7% k₃O₄ at 263°, the activity was decreased by 30%, and the aant. of CO in the gas from 93 to 73%. Firing of Al₂O₃ birs, at 800° lowers its activity by about one half.

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USSR/Chemistry - Catalysts "Investigation of the Kinetics of Dehydration of Formic Acid on Silica Gel," L. Kh. Freydlin, A. M. Levit "Zhur Obehch Khim" Vol XXI, No 7, pp 1255-1264 "Zhur Obehch Khim" Vol XXI, No 7, pp 1255-1264 "Zhur Obehch Khim" Vol XXI, No 7, pp 1255-1264 "Zhur Obehch Khim" Vol XXI, No 7, pp 1255-1264 "Zhur Obehch Khim" Vol XXI, No 7, pp 1255-1264 Investigated kinetics of dehydration of HCOOH at 1200-300° C on differently treated silica gel 200-300° C on differently treated silica gel 200-300° C on differently treated scilica gel 200-300° C on different active centers, Ges product 1100-200, Location of active centers, 191723 USSR/Chemistry - Catalysts (Contd) USSR/Chemistry - Catalysts (Contd) USSR/Chemistry - Catalysts (Contd) USSR/Chemistry - Gatalysts (Contd) USSR/Chemistry - Ga
Julysts SER/Chemistry - Catalysts Investigation of the Kinetics of Dehydration ornic Acid on Silica Gel," L. Kh. Freydlin, & L. Levit Levit Zhur Obshch Khim" Vol XXI, No 7, pp 1255-1261 200-3000 C on differently treated silica gel 200-3000 C on differently deactivated peace in the order: thermally deactivated peaces as 98-995, CO. Reached conclusions as to unit 200-308-995, CO. Reached conclusions as to unit 200-30

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Poisoning of hydrogenation-dehydrogenation catalysts at the light of the theory of their active structure. L. Kh. Freldin and N. I. Ziminova (Inst. Org. Chem. Acad. Sci. U. S.S.R., Moscow). Hobisely Abad. Neak S.S.S.R. 70, 661-4(1961).—Reasons are enumerated why poisoning of a great variety of hydrogenation-dehydrogenation catalysts "poisons" (O, S, Sc., Te, P. As, Sb. Bi, Cli, Bfs, Is, and their compds.) does not, as is commonly and generally assumed, consist in adsorptive "blockings" of active centers, but is due to removal of dissolved II that is an essential promoter of the catalysts. The poisoning effect of this great variety of poisons cannot be due to a reaction with the metal, especially as Is, which does not react with Pt-group metals at all, is a catalyst poison even at room temp. That, in all these instances, the "poisoning" consists simply in "depromotion" through removal of H, is further corroborated by the irreversible nature of that poisoning, and the necessity of renewed hydrogenation to restore the catalytic activity. Purther proof is provided by the stoichiometric proportion between the consumption of the penson and the annt. of dissolved H, and the simple relation between the annt. of poison intro-

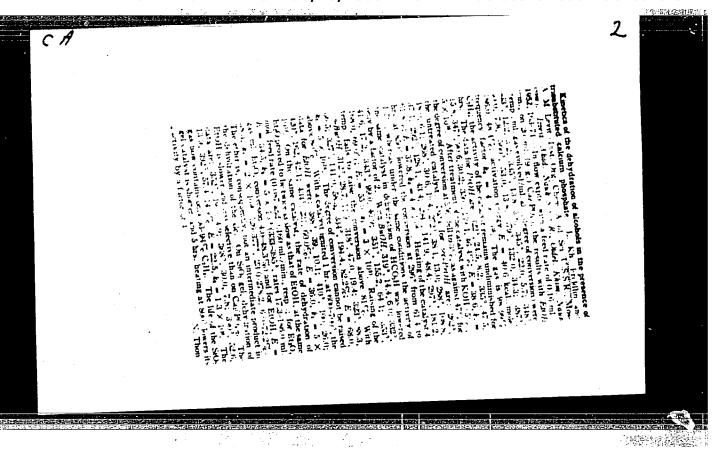
duced and the lowering of the activity. The very sating potential gradient of the type H₃S + H → H₃ + HS; 2HS → H₄ + 2S; S + H → HS, etc., owing to which one mod of H₃S can bring about the removal of a great no. of H atoms. Regeneration by a stream of H₄ has essentially the effect of satg the catalyst anew with H. The observation of Shulkin, et al. (C., 4.4, 4437a) that 1-ethyl-1-cyclopentene deactivates the Pt/C catalyst very rapidly, can be readily explained by a consumption of the dissolved H₄ in agreement with the easy sero-order hydrogenation of cyclopentene at room temp under ordinary pressure; this hydrogenation takes place even in the absence of H₁, solely at the expense of the dissolved H, and results in complete poisoning of the catalyst. In the hydrogenation of 10 ml. of an 8.18% soln. of 1-methyl-1-cyclopentene (1) in C₂H₆, on 2.33 g. Ni, the initial rate of absorption of H₄ was 2 ml./min.; after 90 min., that rate fell to 0.8 ml./min., and, after another 90 min., that rate fell to 0.8 ml./min., and, after another 90 min., that rate fell to 0.8 ml./min., and, after another 90 min, the results of and to 1.1%, resp. Superficially udsurbed H is only loosely bound and, being consumed first, protects active centers against depromotion, as long as H₄ is supplied from without. Conditions favoring removal of the dissolved H, such as high temp., vacuum, or a stream of extraneous gas, depromote the catalyst. By practical experience in dehydrogenation and hydrogenation reactions, the strength of the bond between the dissolved-H promoter and the catalyst decreases in the order Pt > Ni > Pt. Acceptors of dissolved H have a depromoting action. The practice of carrying out dehydrogenation in a stream of H₁ is detd. by the advisability of keeping up a court.

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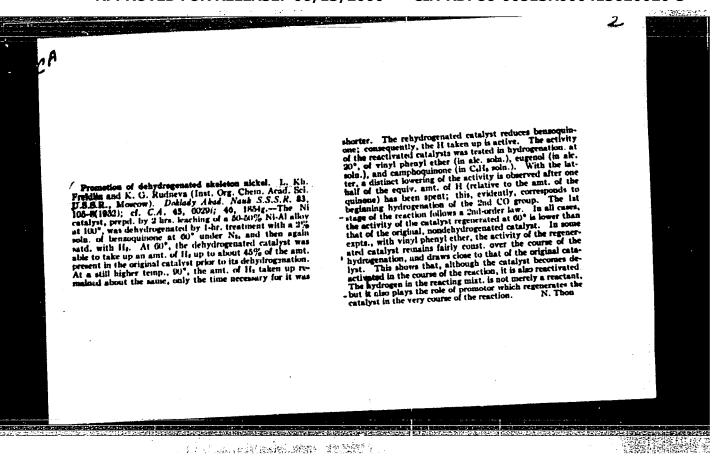
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	insufficient quantity of catal catalyst is deactivated. The diffusion of hydrogen, but it ocity of the reaction of adsortion of hydrogen by adsorption of hydrogen by adsorption is much greater that the first on of the reaction seems either I or II.	In expts on the hydrogenation established that hydrogen is alyst in 2 forms, dissolved ladsorbed hydrogen (II). I acpromoter: When due to rapid benzoquinone, slow rate of su benzoquinone (Contd)	"Kinetics of Removal of the Skeleton Nickel Catalyst and of Activation of Hydrogen," K. G. Rudneva, Inst Org Cher"Dok Ak Nauk SSSR" Vol LXXX	USSR/Chemistry - Cat
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FREYDLIN, L.Kh.; LEVIT, A.M.

Kinetics of the dehydration of elcohols in the presence of trisubstituted calcium phosphato. Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci. '52, 177-84 [Engl. translation].

(CA 47 no.19:9920 '53)



the use of other catalysts. K2CO3, which acts as prompter for phosphate catalyst in dehydration of HCOOH, poisons this catalyst in the dehydration of

activation energy is reduced, as was found also with hydrogen at the (X and β carbon atoms of ethanol, the creases its activity. On substitution of the mol wt. Calcination of the phosphate catalyst dedehydration of normal alcs decreases with increasing

FREYDLIN, L. KH

USSR/Chemistry - Hydrocarbons

Jan/reb 52

Acad Sci USSR Presence of Three-Substituted Calcium Phosphate," L. Kh. Freydlin, A. M. Levit, Inst of Org Chem, "The Kinetics of the Dehydration of Alcohols in the

"Iz Ak Nauk, Otdel Khim Nauk" No 1, pp 163-171

are most easily dehydrated by this method, iso-alcs calcium phosphate proceeds highly selectively, with less easily, and normal alcs least. the gas contg 98-99% unsatd compds. Secondary alcs Dehydration of alcs in presence of 3-substituted The rate of

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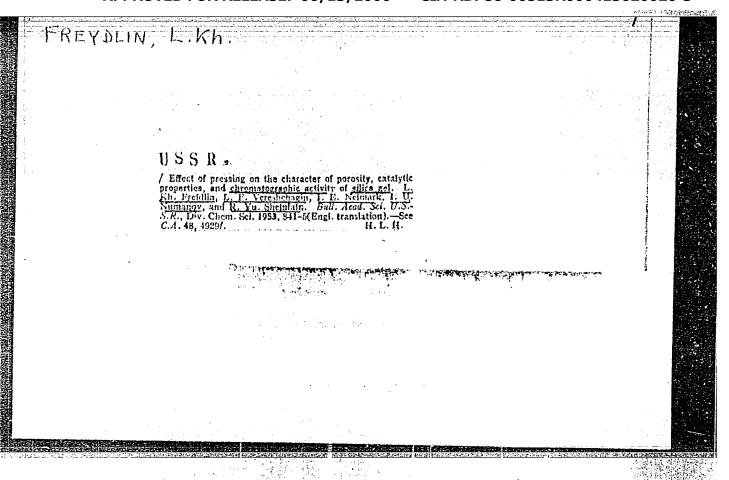
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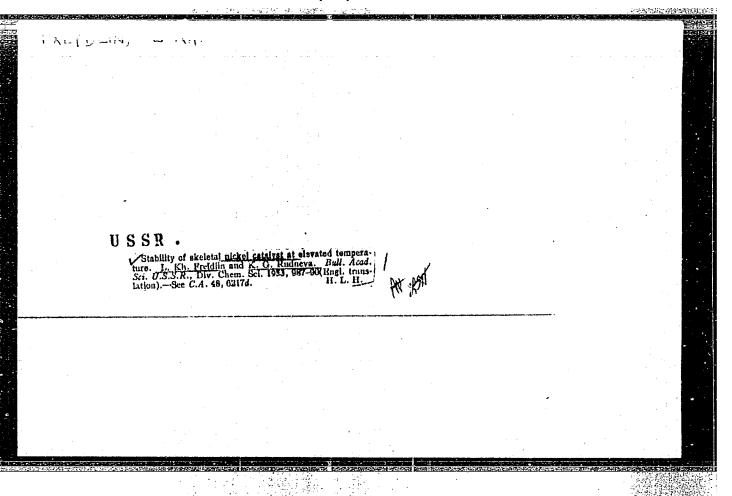
USSR/Chemistry - Hydrocarbons

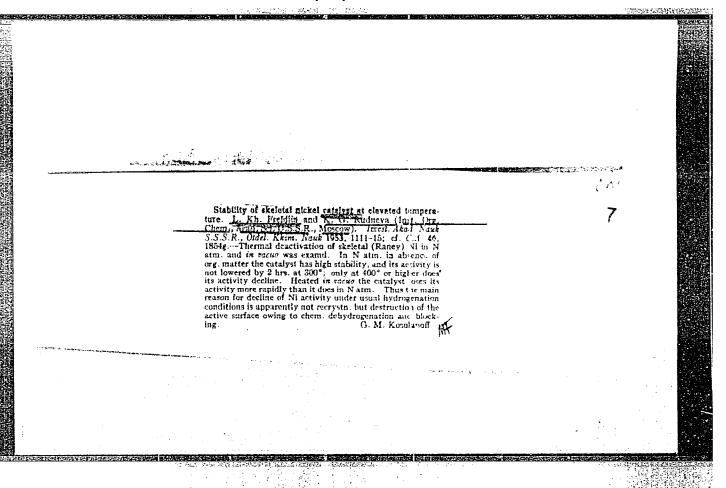
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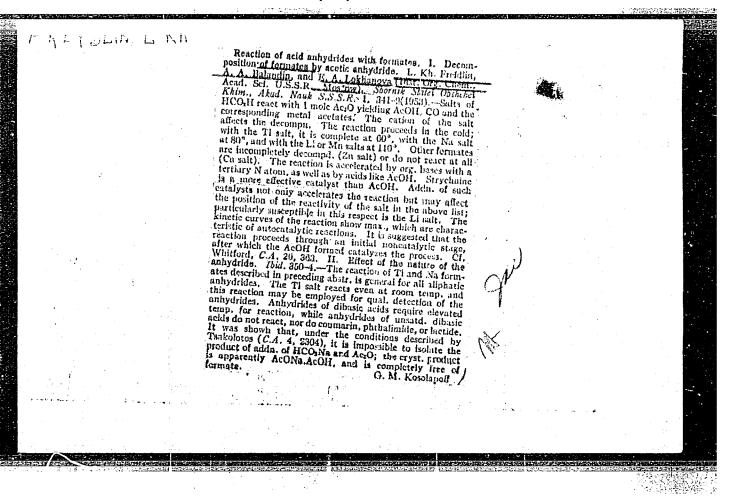
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FREYDLIN, L. Kh., A. A. Balandin and E. A. Lekhanova

Interaction of Acid Anhydrides with Formates. II. Effect of the Nature of the Anhydride, page 350

Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol I, Moscow-Leningrad 1953, pages 762-766

Inst of Organic Chemistry, Acad, Sci USSR

FREYDLIN, L. KH.

USSR/Chemistry - Catalysts

* Pub. 40 - 21/22 Card 1/1

Freydlin, L. Kh.; Vereshchagin, L. F.; Neymark, I. E.; Numanov, I. U.; Authors

and Sheynfayn, R. Yu.

Effect of compression on the porosity, catalytic properties and chroma-Title

tographic activity of silica gel

Izv. AN SSSR. Otd. khim. nauk 5, 945-950, Sep-Oct 1953 Periodical

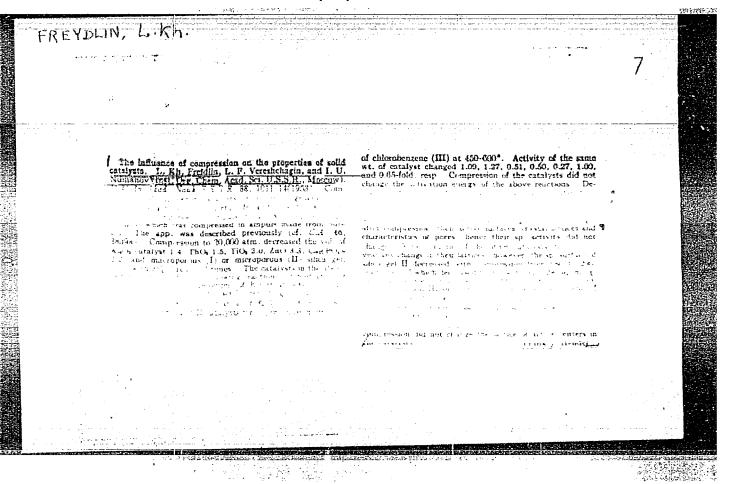
The effect of 20,000 atm pressures on the change in porosity, adsorb-Abstract ability and catalytic properties of silica gel was investigated. The

chromatographic activity of silica gel compressed at 20,000 atm was found to be about 25% lower than the activity of non-compressed s. g. The greatest reduction (almost 50%) in specific sorption volume of pores (total volume of micro- and transient pores) of large porous silica gel was observed at 5000 atm. but its specific surface area

remained unchanged. Maximum reduction in specific sorption volume of pores of micro-porous silica gel was established during compression of latter at 10,000 atm. Five USSR references (1949-1952). Tables, graphs,

Institution :

December 13, 1952 Submitted



FREY DLIN,	L.Kn.
	USSR . S.S.R. 91, 569-72(1983); cf. C.A. 48, 14012i, 14012c. J. Roytar Leach J. Roytar Leach J. Roytar Leach

FREYDLIN, L	.Kh.	Constitution of the second		
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USSR	In Kh. Freidlin and K. C. Nawk S.S.S.R. 91, 1171-4(16) the method described carlier tion between the activity of a content was detd. The cate Fe-Al alloys with NaOH. A content 50% Al is not very contains 20 ml. H per g. of ce 60% alloy is 10 times as reaction and from a 66% alloy -20 ting. of catalyst). If the cate quinone, it becomes completely H. This verifies conclusions if nature of the catalyst. It metal-fi bond is more stable if Fecatalyst.	y of an iron skeleton catalyst. 3. Rudneva. Dahlady Akad. 953): Ct. CA. 45, 6031a.—By (cf. CA. 46, 1854g) the rela- skeletal Fe catalyst and its H alyst was prepd. from an alloy active for hydrogenation (it atalyst). That prepd. from a ve (29 ml. H per g. of catalyst) mass as reactive (73 ml. H per alyst is treated with benzo- y inactive and does not adsorb reached earlier on the metal- was also established that the in the Ni catalyst than in the J. Roytar Leach		
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